

In re Application of: Shlomo NAVARRO et al
Serial No.: 10/816,861
Filed: April 5, 2004
Final Office Action Mailing Date: September 24, 2009

Examiner: Neil S. Levy
Group Art Unit: 1615
Attorney Docket: 25706
Confirmation No.: 1807

In the claims:

1. (Currently Amended) A composition-of-matter comprising a packaging material and a pest control composition comprising a combination of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue, said pest control composition being incorporated in or on said packaging material, wherein an amount of said sesquiterpene alcohol in said pest control composition is at least 10 % by weight, and wherein an amount of said pest control composition in said composition-of-matter is such that an amount of said *ar*-turmerone in said composition-of-matter is in a range of 0.1 g/m² to 0.5 g/m², a total amount of said sesquiterpene alcohol in said composition-of-matter is in a range of 0.03 g/m² to 0.2 g/m², and an amount of said turmeric oleoresin solid residue in said composition-of-matter is in a range of 0.1 g/m² to 0.5 g/m², and wherein amounts of said *ar*-turmerone, said sesquiterpene alcohol and said turmeric oleoresin solid residue are selected such that said pest control composition exhibits insect repellant and antifeedant activities.

2. (Previously Presented) The composition-of-matter of claim 1, wherein a ratio of said packaging material to said pest control composition is selected at a range such that said composition-of-matter exhibits insect repellant and antifeedant activities.

3. (Currently Amended) The composition-of-matter of claim 2, wherein said range is selected such that a strength of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from a strength~~that~~ of an identical packaging material without said pest control composition.

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4. (Currently Amended) The composition-of-matter of claim 2, wherein said range is selected such that a transparency of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from a transparency~~that~~ of an identical packaging material without said pest control composition.

5. (Currently Amended) The composition-of-matter of claim 2, wherein said range is selected such that an elasticity of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from an elasticity~~that~~ of an identical packaging material without said pest control composition.

6. (Currently Amended) The composition-of-matter of claim 2, wherein said range is selected such that a water permeability of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from a water permeability~~that~~ of an identical packaging material without said pest control composition.

7. (Currently Amended) The composition-of-matter of claim 2, wherein said range is selected such that a gas permeability of said packaging material with said pest control composition incorporated in or on said packaging material is not substantially different from a gas permeability~~that~~ of an identical packaging material without said pest control composition.

8. (Original) The composition-of-matter of claim 2, wherein said pest is an insect or a mite.

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9. (Previously Presented) The composition-of-matter of claim 1, wherein said packaging material is a paper or a paperboard.

10. (Withdrawn) The composition-of-matter of claim 1, wherein said packaging material is a polymer.

11. (Withdrawn) The composition-of-matter of claim 1, wherein said packaging material is a textile.

12. (Withdrawn) The composition-of-matter of claim 1, wherein said packaging material is a metal foil.

13-21. (Canceled)

22. (Withdrawn and Currently Amended) A packaged product comprising a product contained within a packaging material modified to include ~~at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue~~ a pest control composition comprising a combination of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue, said pest control composition being incorporated in or on said packaging material, wherein an amount of said sesquiterpene alcohol in said pest control composition is at least 10 % by weight, and wherein an amount of said pest control composition in or on said packaging material is such that an amount of said *ar*-turmerone in or on said packaging material is in a range of 0.1 g/m² to 0.5 g/m², a total amount of said sesquiterpene alcohol in or on said packaging material is in a range of 0.03 g/m² to 0.2 g/m², and an amount of said turmeric oleoresin solid residue in or on said packaging material is in a range of 0.1 g/m² to 0.5 g/m², and wherein amounts of said *ar*-turmerone, said sesquiterpene alcohol and said turmeric oleoresin solid residue

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are selected such that said pest control composition exhibits insect repellant and antifeedant activities.

23. (Withdrawn) The packaged product of claim 22, wherein said product is a foodstuff.

24. (Withdrawn and Currently Amended) The packaged product of claim 22, wherein said packaging material is impregnated or coated with said pest control composition which comprises said combination of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue ~~at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue.~~

25. (Withdrawn and Currently Amended) The packaged product of claim 22, wherein said pest control composition is such that said combination of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue ~~at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue~~ is included at a concentration selected capable of preventing a pest from infesting said packaged product.

26. (Withdrawn) The packaged product of claim 25, wherein said pest is an insect or a mite.

27. (Withdrawn) The packaged product of claim 22, wherein said packaging material is composed of a paper or a paperboard.

28. (Withdrawn) The packaged product of claim 22, wherein said packaging material is composed of a polymer.

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29. (Withdrawn) The packaged product of claim 22, wherein said packaging material is composed of a textile.

30. (Withdrawn) The packaged product of claim 22, wherein said packaging material is composed of a metal foil.

31-38. (Canceled)

39. (Withdrawn and Currently Amended) A method of producing a pest impervious packaging material, comprising:

(a) modifying a composition used in fabrication of packaging material to include a pest control composition which comprises a combination of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue, wherein an amount of said sesquiterpene alcohol in said pest control composition is at least 10 % by weight~~at least one compound selected from the group consisting of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue; and~~

(b) using said composition resultant from step (a) to fabricate the packaging material, such that an amount of said pest control composition in said packaging material is such that an amount of said *ar*-turmerone in said packaging material is in a range of 0.1 g/m² to 0.5 g/m², a total amount of said sesquiterpene alcohol in said packaging material is in a range of 0.03 g/m² to 0.2 g/m², and an amount of said turmeric oleoresin solid residue in said packaging material is in a range of 0.1 g/m² to 0.5 g/m², thereby producing the pest impervious packaging material.

40. (Withdrawn) The method of claim 39, wherein said composition includes a polymer.

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41. (Withdrawn) The method of claim 39, wherein said composition includes a paper or a paperboard.

42. (Withdrawn) The method of claim 39, wherein said composition includes a textile.

43. (Withdrawn) The method of claim 39, wherein said composition includes a metal foil.

44-48. (Canceled)

49. (Canceled)

50. (Withdrawn and Currently Amended) A method of controlling pest infestation, comprising exposing the pest to a composition comprising ~~an effective amount of at least one sesquiterpene alcohol and/or a turmeric oleoresin solid residue~~ a combination of *ar*-turmerone, a sesquiterpene alcohol and a turmeric oleoresin solid residue, wherein an amount of said sesquiterpene alcohol in said composition is at least 10 % by weight, and wherein an amount of said composition is such that an amount of said *ar*-turmerone is in a range of 0.1 g/m² to 0.5 g/m², a total amount of said sesquiterpene alcohol is in a range of 0.03 g/m² to 0.2 g/m², and an amount of said turmeric oleoresin solid residue is in a range of 0.1 g/m² to 0.5 g/m², and wherein amounts of said *ar*-turmerone, said sesquiterpene alcohol and said turmeric oleoresin solid residue are selected such that said composition exhibits insect repellent and antifeedant activities, thereby controlling pest infestation.

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51. (Withdrawn) The method of claim 50, wherein said exposing is effected by a method selected from the group consisting of spraying, soaking, dipping, drenching, mixing, impregnating, fumigating, fogging, coating and dusting.

52-60. (Canceled)

61. (New) The composition-of-matter of claim 1, wherein said sesquiterpene alcohol is selected from the group consisting of hinesol, agarospirol, valerianol, β -bisabolol, α -bisabolol, γ -eudesmol, *ar*-turmerol, α -copaen-11-ol, [*E*]-nerolidol and gossonorol, and any combination thereof.

62. (New and Withdrawn) The packaged product of claim 22, wherein said sesquiterpene alcohol is selected from the group consisting of hinesol, agarospirol, valerianol, β -bisabolol, α -bisabolol, γ -eudesmol, *ar*-turmerol, α -copaen-11-ol, [*E*]-nerolidol and gossonorol, and any combination thereof.

63. (New and Withdrawn) The method of claim 39, wherein said sesquiterpene alcohol is selected from the group consisting of hinesol, agarospirol, valerianol, β -bisabolol, α -bisabolol, γ -eudesmol, *ar*-turmerol, α -copaen-11-ol, [*E*]-nerolidol and gossonorol, and any combination thereof.

64. (New and Withdrawn) The method of claim 50, wherein said sesquiterpene alcohol is selected from the group consisting of hinesol, agarospirol, valerianol, β -bisabolol, α -bisabolol, γ -eudesmol, *ar*-turmerol, α -copaen-11-ol, [*E*]-nerolidol and gossonorol, and any combination thereof.